



This project was funded by The Alabama Department of Environmental Management through a Clean Water Act Section 319(h) nonpoint source grant provided by the US Environmental Protection Agency - Region 4.

The Moore's Mill Creek Stream Stabilization Project: "Going with the Flow"



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Executive Director
AL Clean Water Partnership

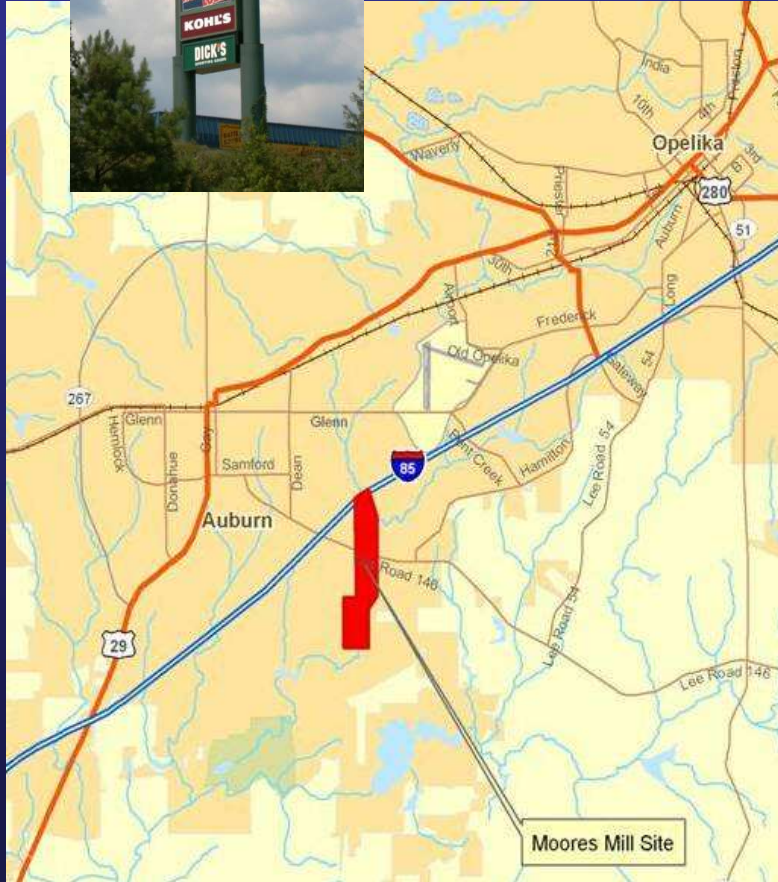
ADEM Nonpoint Source
Conference
January 17, 2013
Montgomery, AL

ACWP Strategy

Bring interested citizens and water users **together** through a **neutral** forum in order to identify water related issues and challenges and become part of the **solution** for long-term water quality improvement and conservation in a **non-regulatory** way.

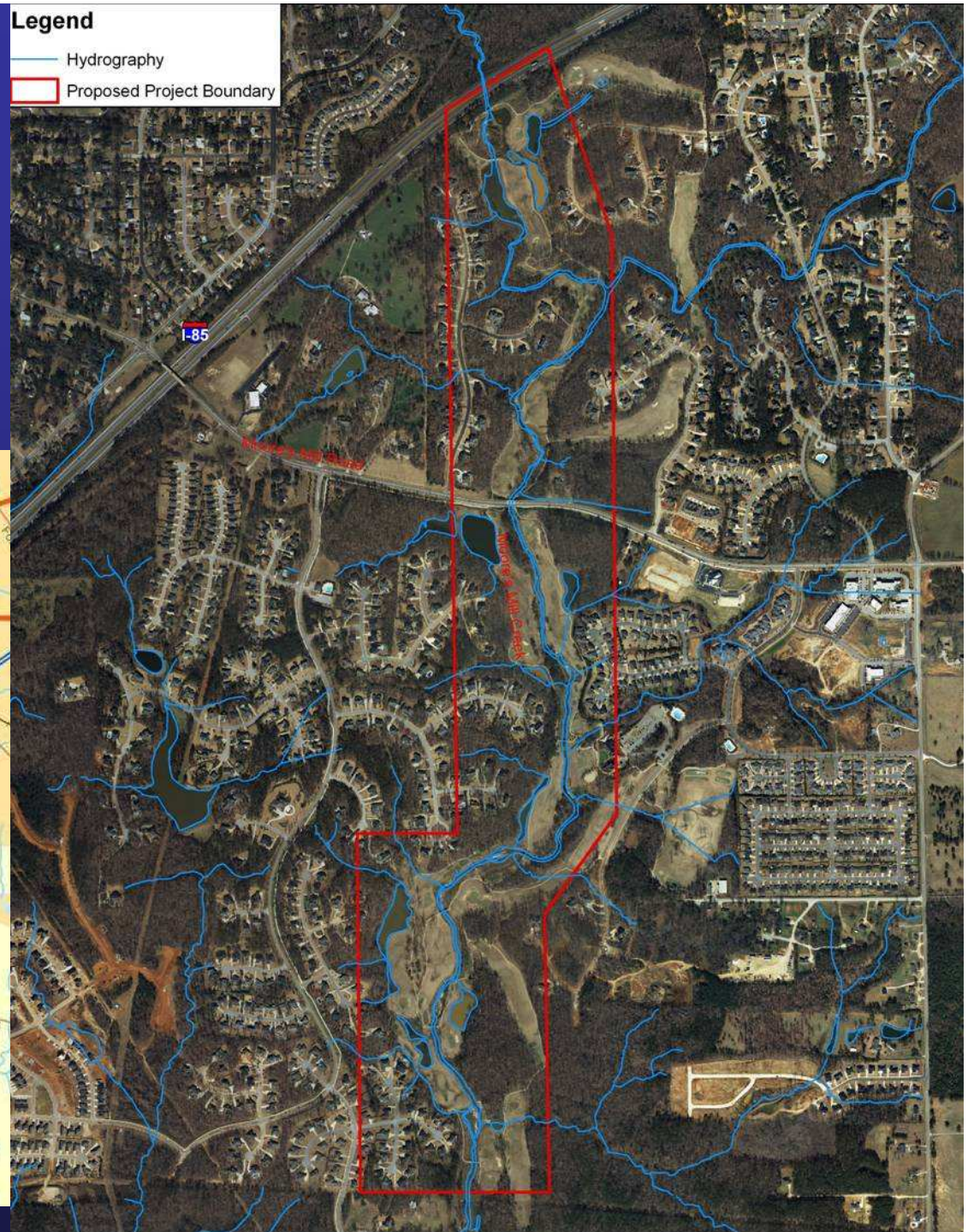
Moore's Mill Creek

- Located in the Tallapoosa River Basin, Lee County, Alabama
- 303(d) listed for siltation (sediment) from confluence with Chewacla Creek to its source (approximately 10.51 miles)
- Historic channelization, lack of riparian buffers and urbanization of the watershed have all led to reach-wide instability
- Source: Moore's Mill Creek Watershed Plan, Wildlands Engineering, 2008



Legend

- Hydrography
- Proposed Project Boundary



Project Goals:

- Reduce Bank Erosion
- Reduce Sedimentation
- Improve Water Quality
- Improve Stream Habitat
- Improve Riparian Buffer
- Increase Water Oxygen Content
- Provide Educational Opportunities
- Establish an Auburn Business Partners for Clean Water Program (designed to educate, build partnerships, and provide positive public relations with local businesses working for clean water)

Project Deliverables and Outputs:

- Development of a watershed-based management plan for Moore's Mill Creek
- Development and implementation of site-specific natural stream channel design plans and specifications
- Restoration of approximately 12,400 linear feet of Moore's Mill Creek and several tributaries to Moore's Mill Creek

- Establishment of a “show-case” natural channel design demonstration site for the private and public sectors
- Demonstration tours and presentations of Best Management Practices for Golf Courses that address fertilizer application, pest control, clipping management and disposal, and water quality protection.
- Local watershed and statewide education (signage, guided tours, meeting presentations, etc.) and training for students, developers, government officials, etc.

TEAMWORK = SUCCESS



- Create Win/Win Opportunities
- Strength in Numbers
 - Diversity Rules
- All Expertise Welcomed
 - Listen First
- Say What you Mean
- Coordination Counts

Project Partners:

- Alabama Department of Environmental Management
 - Alabama Clean Water Partnership
- Wildlands Engineering (formerly ACER)
 - Cleveland Brothers Construction
- Lower Tallapoosa Clean Water Partnership
 - City of Auburn
- Auburn University Landscape Architecture Department
 - Alabama Cooperative Extension System
 - Assorted local stakeholder groups

Stream Restoration Using Natural Channel Design – Moore's Mill Creek, Auburn

A total of 28 individual structures were installed as part of the project:

- 11 rock vanes
- 5 log vanes
- 1 boulder cluster
- 5 root wads
- 1 cross vane
- 1 single-wing deflector
- 3 double-wing deflectors
- 1 rock J-hook



- In addition, a bankfull bench cut was installed along 2,492 linear feet of the stream, for a total of 5,756 linear feet of streambank stabilized as part of this project.

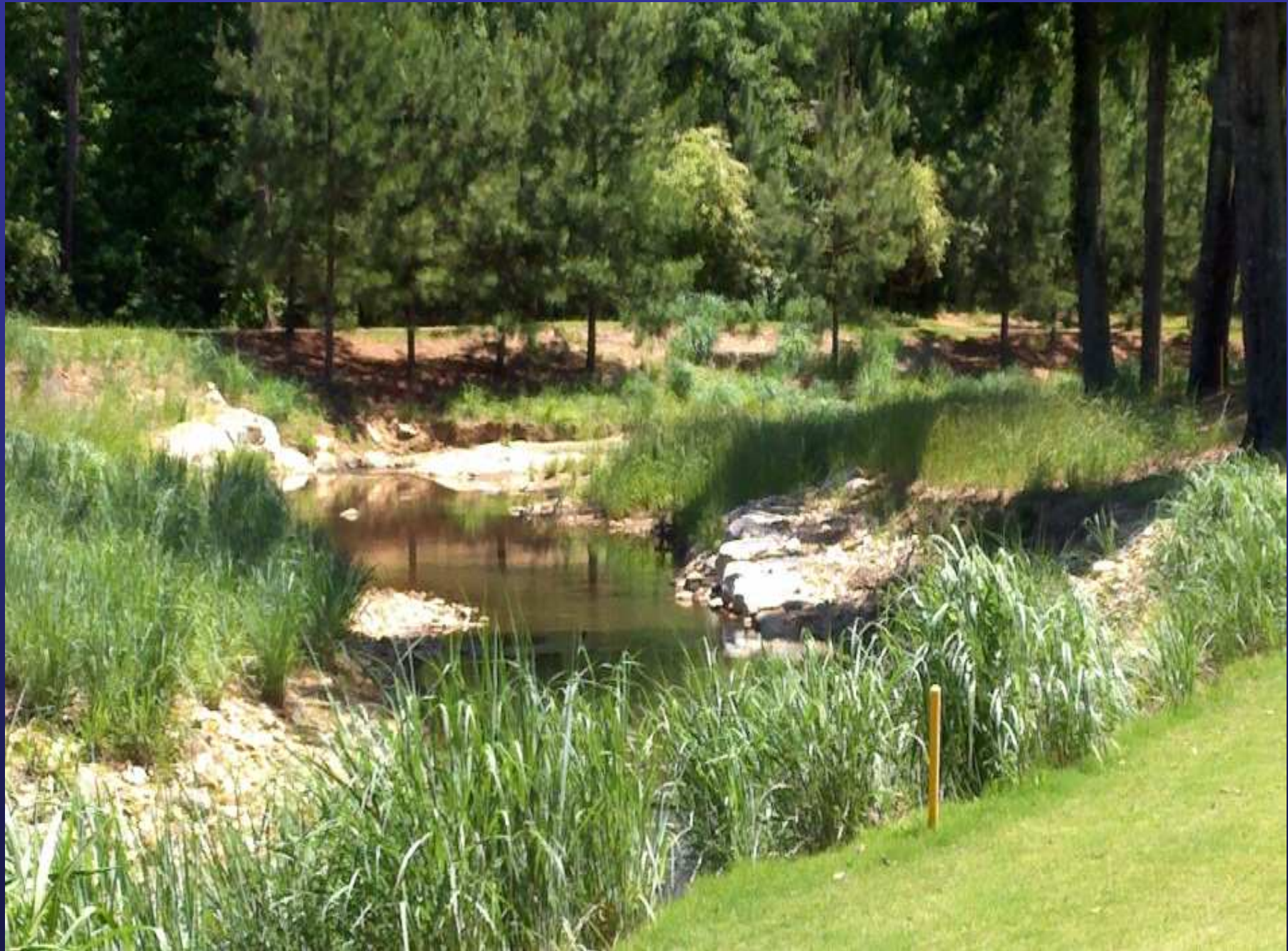
























Lee County
Business Partners
for Clean Water

*The Tallapoosa River
Clean Water Partnership
Congratulates*

**Bio Green USA
Blackjack Horticulture Inc.
Bodine's Landscape Service
Creative Habitats
Down To Earth Landscaping Inc.
Erosion Pros, LLC
Flora Terra, LLC
Lake Lawns, LLC
Landscape Workshop, Inc.
Tip Top Lawn Care & Repair
TruGreen ChemLawn
Wondrous Works, LLC**



*Appreciation is extended to the
following partners for their
support of this program*

Cities of Auburn and Opelika, Alabama Clean Water Partnership, Alabama Cooperative Extension System, Alabama Department of Environmental Management, Alabama Farmers Federation, Alabama Nursery and Landscape Association, Alabama Turfgrass Association, Auburn University of Agronomy and Soils, Auburn University Department of Industrial Design, Cleveland Brothers Construction, Moore's Mill Golf Club and the Saugahatchee Watershed Management Plan (SWaMP) Implementation Project.



**Professional
Landscaping
Companies**

**Golf Course
Managers**

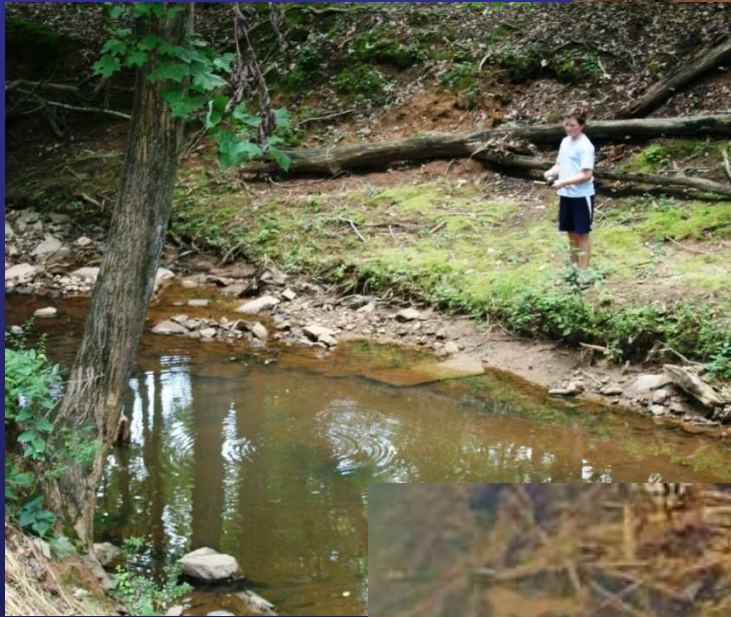
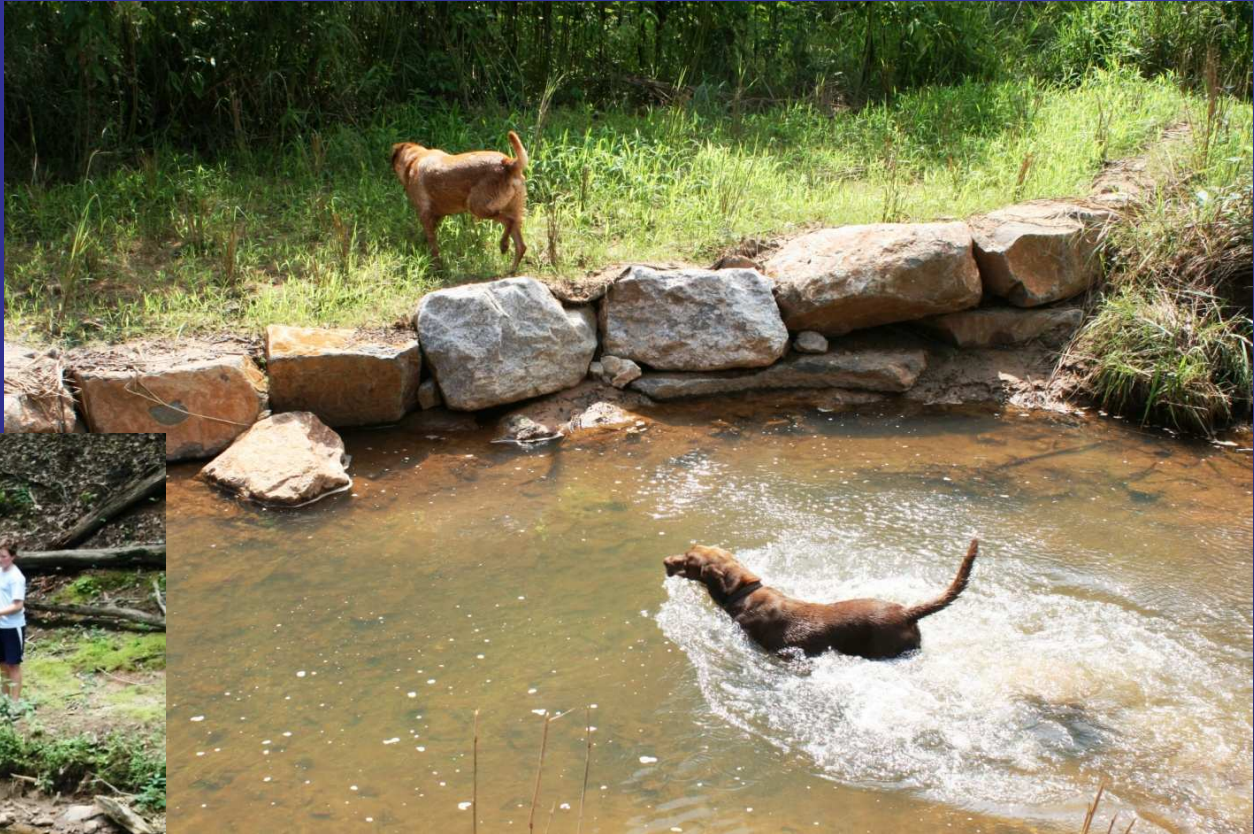






Unanticipated Project Challenges

- The Drought of 2007 -2008; Floods of 2009 - Abnormally high rainfall conditions limited access to work sites because of Golf Course access ("no cart" days).
- Abbreviated work schedule by equipment operator due to son's cancer treatments
- FEMA remapping of Moore's Mill Creek floodplain caused redo of construction plans
- Bankruptcy by contractor providing equipment/manpower for project (= loss of equipment, manpower toward end of project)



Be Informed. . . Get Involved!

Contact Your
Clean Water Partnership
Basin Facilitator

or



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